Deploying artificial intelligence in the wireless infrastructure: The challenges ahead

Miguel Ángel Vázquez
Centre Tecnològic de, Telecomunicacions de Catalunya, Castelldefels, Spain, mavazquez@cttc.es

Christos Masouros
University College London, London, United Kingdom, c.masouros@ucl.ac.uk

Fisseha Mekuria
Council for Scientific and Industrial, Research, Pretoria, South Africa, FMekuria@csir.co.za

Jean Paul Pallois
Huawei Technologies, Paris, France, jp.pallois@huawei.com

Tony Kenyon
University College London, London, United Kingdom, a.kenyon@ucl.ac.uk

Ana Pérez-Neira
Centre Tecnològic de, Telecomunicacions de Catalunya and Univeritat Politècnica de Catalunya, Castelldefels, Spain, aperez@cttc.es

Merouane Debbah
Huawei Research Centre, Paris, France, merouane.debbah@centralesupelec.fr

Yansha Deng,
King's College London, London, United Kingdom, yansha.deng@kcl.ac.uk

Javan Erfanian
Bell Mobility, Ontario, Canada, javan.erfanian@bell.ca

https://ieeexplore.ieee.org/document/8911693

Abstract

The adoption of artificial intelligence (AI) techniques entails a substantial change in the wireless ecosystem where data as well as their owners become crucial. As a result, the roll out of AI techniques in wireless systems raises a plethora of questions. In this context, we describe the challenges observed by the wireless stakeholders when deploying AI. Furthermore, we introduce the recent discussion in field of ethics that appear when managing wireless communications data.